QC ABSTRACT

NAME OF WORK: "Improvements to Drains and Asphalting to Roads at Kogilu Surrounding Area in Ward No 03 Jakkur Byatarayanapura Sub Division."

Sl. NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density (Loose)	One Test		1	1
		Bulk Density (Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density (Loose)	One Test		1	1
		Bulk Density (Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	RMC(M20)	Compressive Strength(7days and 28days)	2 set /6-15 cum	12.83	8	8
7	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1

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8	SDBC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
9	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1

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20.12.19
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-03-29-60** **Date: 13-02-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054
Customer's Reference	:	BBMP/EE/BTP/WO/122/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-02-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	11-02-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.87	_
2	Finess by Air permeablity method (m^2/kg,Min)	298.7	225m^2/kg, Min
3	Density (gm/cc)	3.15	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Authorized Signatory
Technical Manager

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Certificate No : TC-5548

Format No: CP/TF/61

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab Id	:	CP-2021 01 29 60 **Date: 12-03-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Drains and Asphalting to Roads at Kogilu Surrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."
Agency	:	M/s Shree Charan Constructions, Prop Sri T S Kothandaraju, No 05, Sree Srinivas, Nagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054
Customer's Reference	:	BBMP/EE/BTPWOV122/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-02-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	11-02-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

S.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1.	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2.	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3.	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-03-29-60** **Date: 13-02-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054
Customer's Reference	:	BBMP/EE/BTP/WO/122/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	10-02-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	7875	8120	54.1	45.9	30-70
4	10 mm	3899	12019	80.1	19.9	10-35
5	4.75 mm	2588	14607	97.4	2.6	0-5
6	Pan	393	15000	100.0	0	—

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-03-29-60** **Date: 13-02-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.38	–
5	Bulk Density(Compacted) (Kg/l)	1.45	–
6	Water Absorption(%)	0.22	–

* The results obtained are satisfactory as per standard requirements.

Note:

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Technical Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-03-29-60** **Date: 13-02-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054
Customer Reference	:	BBMP/EE/BTP/WO/122/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-02-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2645	2943	58.9	41.1	25-55
4	4.75 mm	1811	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-03-29-60** **Date: 13-02-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.35	–
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-03-29-60 **Date: 13-02-21**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."

Agency : M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054

Customer's Reference : BBMP/EE/BTP/WO/122/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-02-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 10-02-21

Total weight taken : 1000 grams

SLno	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-03-29-60** **Date: 13-02-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Lab ID : CP-2021-03-29-60 **Date: 11-02-21**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."

Agency : M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054

Customer's Reference : BBMP/EE/BTP/WO/122/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-02-21

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test : 10-02-21

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-03-29-60 **Date: 24/02/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."

Agency : M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054

Customer's Reference : BBMP/EE/BTP/WO/122/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-02-21

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	17/02/2021	24/02/2021	150.75 X 151.83 X 151.14	22888	8.558	432.7	18.9	18.5
2	Drain Bottom Slab Concrete	M20	17/02/2021	24/02/2021	150.88 X 149.16 X 149.22	22506	8.853	407.6	18.1	
3	Drain Bottom Slab Concrete	M20	17/02/2021	24/02/2021	150.28 X 149.61 X 150.42	22484	8.508	413.6	18.4	

* The results obtained are satisfactory as per standard requirements.

Note:

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ಸಮಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Technical Manager

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Certificate No : TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-03-29-60 **Date: 17/03/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054
Customer's Reference	:	BBMP/EE/BTP/WO/122/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-02-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	17/02/2021	17/03/2021	151.37 X 151.93 X 149.67	22996	8.838	548.0	23.8	23.4
2	Drain Bottom Slab Concrete	M20	17/02/2021	17/03/2021	150.38 X 151.36 X 149.85	22762	8.926	517.4	22.7	
3	Drain Bottom Slab Concrete	M20	17/02/2021	17/03/2021	150.66 X 149.24 X 149.66	22485	8.770	534.7	23.8	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Certificate No.: TC-6548

Format No: CP/TP/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-03-29-60

Date: 27/02/2021

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Drains and Asphalting to Roads at Kogilu Surrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."

Agency : M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054

Customer's Reference : BBMP/BE/BTP/WO/122/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-02-21

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/02/2021	27/02/2021	151.55 X 150.94 X 149.96	22875	8.558	420.5	18.4	18.2
2	Drain Side Wall Concrete	M20	20/02/2021	27/02/2021	151.37 X 149.65 X 151.88	22652	8.853	408.5	18.0	
3	Drain Side Wall Concrete	M20	20/02/2021	27/02/2021	151.87 X 150.23 X 151.29	22816	8.508	415.6	18.2	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-03-29-60 **Date: 20/03/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054
Customer's Reference	:	BBMP/EE/BTP/WO/122/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-02-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/02/2021	20/03/2021	149.76 X 150.87 X 150.92	22594	8.838	528.2	23.4	23.0
2	Drain Side Wall Concrete	M20	20/02/2021	20/03/2021	149.99 X 150.63 X 150.58	22593	8.926	506.4	22.4	
3	Drain Side Wall Concrete	M20	20/02/2021	20/03/2021	149.84 X 150.50 X 149.75	22549	8.770	523.4	23.2	

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2021-03-29-60** **Date: 03-03-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054
Customer Reference	:	BBMP/EE/BTP/WO/122/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-21
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	01-03-21
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2021-03-29-60 **Date: 04-03-21**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."

Agency : M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054

Customer Reference : BBMP/EE/BTP/WO/122/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-03-21

Type of Mix : WMM (Wet Mix Macadam)

Date of Test : 02-03-21

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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Certificate No : TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2021-03-29-60 Date: 05-03-21

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Drains and Asphalting to Roads at Kogilu Surrounding Area in Ward No 03 Jakkur Byatarayanapura Sub Division."

Agency : M/s Shree Charan Constructions, Prop.Sri.T.N Kothandaraju, No.05, Sree Srinivas, Bagath Enclave, Kattigenahalli, Yelahanka, Bangalore-560054

Customer Reference : BBMP/EE/BTP/WO/122/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-03-21

Type of Mix : WMM (Wet Mix Macadam)

Date of Test : 03-03-21

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	CP-RW-2021-03-29-60 **Date: 06-03-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054
Customer Reference	:	BBMP/EE/BTP/WO/122/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-03-21
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	04-03-21
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2021-03-29-60** **Date: 08-03-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054
Customer Reference	:	BBMP/EE/BTP/WO/122/2020-21
Source of Sample	:	* Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-21
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	05-03-21
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2021-03-29-60** **Date: 08-03-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054
Customer Reference	:	BBMP/EE/BTP/WO/122/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-21
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	06-03-21
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2021-03-29-60** **Date: 03-03-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054
Customer Reference	:	BBMP/EE/BTP/WO/122/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-21
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	01-03-21

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : CP-RW-2021-03-29-60

Date: 03-03-21

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."

Agency : M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054

Customer Reference : BBMP/EE/BTP/WO/122/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-03-21

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of Test : 01-03-21

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-2021-03-29-60 **Date: 04-03-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054
Customer Reference	:	BBMP/EE/BTP/WO/122/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-03-21
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	02-03-21

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2021-03-29-60** **Date: 12-03-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Drains and Asphalting to Roads at Kogilu Surrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054
Customer's Reference	:	BBMP/EE/BTP/WO/122/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-03-21
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of Test	:	10-03-21

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

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TEST RESULTS OF GRADATION FOR SDBC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2021-03-29-60**	**Date: 17-03-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	"Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."	
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054	
Customer Reference	:	BBMP/EE/BTP/WO/122/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	15-03-21	
Type of Mix	:	SDBC-Plant (Semi Dense Bituminous Concrete)	
Date of Test	:	15-03-21	
Weight of Sample	:	5000	Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0.0	100.0	100
9.5	410	410	8.2	91.8	90-100
4.75	2187	2597	51.9	48.1	35-51
2.36	1038	3635	72.7	27.3	24-39
1.18	525	4160	83.2	16.8	15-30
0.3	503	4663	93.3	6.7	9-19
0.075	169	4832	96.6	3.4	3-8
PAN	168	5000	100.0	0.0	0..

* The results obtained are satisfactory as per standard requirements.

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR SEMI DENSE BITUMINOUS CONCRETE

Lab ID	:	CP-RW-2021-03-29-60 **Date: 18-03-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054
Customer Reference	:	BBMP/EE/BTP/WO/122/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-03-21
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of Test	:	15-03-21

Physical Requirements fo Coarse Aggregate for Semi Dense Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	11.1	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	9.5		
Strength	Aggregate Impact Value	21.8	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.58	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.31	Maximum 2%	IS:2386 Part III

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2021-03-29-60** **Date: 18-03-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054
Customer Reference	:	BBMP/EE/BTP/WO/122/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-03-21
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of Test	:	15-03-21

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	99.0	1.0	98.8	Minimum Retained Coating 95%
2	98.5	1.5		
3	99.0	1.0		

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2021-03-29-60** **Date: 18-03-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054
Customer Reference	:	BBMP/EE/BTP/WO/122/2020-21
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	15-03-21
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of Test	:	15-03-21

The results of the tests conducted on the Semi Dense Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-16
1	Marshal Stability at 60°C, KN	10.54	10.11	8.2KN(min)
2	Marshal flow at 60°C, mm	3.22	3.29	2-4
3	Percent air Voids	4.59	4.25	3-5
4	Percent Voids in mineral Aggregate(VMA %)	13.88	13.94	13-15
5	Percent Voids filled with Bitumen(VFB %)	70.32	70.0	65-75
6	Density, g/cc	2.26	2.24	–

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR SDBC
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2021-03-29-60** **Date: 20-03-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Drains and Asphalting to Roads at Kogilu Sarrounding Area in Ward No 05 Jakkur Byatarayanapura Sub Division."
Agency	:	M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054
Customer Reference	:	BBMP/EE/BTP/WO/122/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-03-21
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of Test	:	19-03-21

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	502	501
2	Weight of the sample After extraction	B	477	475
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.98	5.19
4	Average percentage	%	5.1	

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Lab ID : **CP-RW-2021-03-29-60** **Date: 20-03-21**

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 477

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	31	31	6.50	93.5	90-100
4.75	213	244	51.15	48.8	35-51
2.36	63	307	64.36	35.6	24-39
1.18	39	346	72.54	27.5	15-30
0.3	71	417	87.42	12.6	9-19
0.075	34	451	94.55	5.5	3-8
PAN	27	478	100.21	-0.2	0

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 475

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	29	29	6.11	93.9	90-100
4.75	215	244	51.37	48.6	35-51
2.36	62	306	64.42	35.6	24-39
1.18	41	347	73.05	26.9	15-30
0.3	66	413	86.95	13.1	9-19
0.075	32	445	93.68	6.3	3-8
PAN	32	477	100.42	-0.4	0

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Samples will be disposed after 30 days from the date of issue of test certificate

ಸಹಾಯಕ ಲೆಕ್ಕಾಧಿಕಾರಿಯವರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro
R RUDRAPRASAD
Authorized Signatory
Technical Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

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CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

To,

Date: 26-03-2021

ASSISTANT EXECUTIVE ENGINEER

BYATARAYANAPURA SUB DIVISION

BBMP

BANGALORE

Dear Sir,

Sub: M/s. Civil Pro Services for the work of "IMPROVEMENTS TO DRAINS AND ASPHALTING TO ROADS AT KOGILU SARROUNDING AREA IN WARD NO 05 JAKKUR BYATARAYANAPURA SUB DIVISION."

Ref: 1. Work Order No: BBMP/EE/BTP/WO/122/2020-21

2. Job code: 005-20-000102

We are here with forwarding to M/s Shree Charan Constructions, Prop.Sri.T.S Kothandaraju, No:05, Sree Srinivas, Bagath Enclave, Kattegenahalli, Yelahanka, Bangalore-560054. First and Final bill duly verified and certified that the Work is satisfactory and for a Gross Value of RS.51,49,366.00 /-(RS. Fifty One Lakhs Forty Nine Thousand Three Hundred and Sixty Six Only).

Thanking you,

Yours faithfully,

For Civil Pro

CIVIL Pro Sig..... Date..... BANGALORE

R. RUDRAPRASAD
AUTHORIZED SIGNATORY
CIVIL PRO

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

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